## I claim:

1	1. An apparatus for displaying the state of wear of a brake lining on a vehicle, the brake lining
2	wear display apparatus comprising:
3	
4	a wear sensor for sensing the state of wear of the brake lining;
5	
6	a display for providing a visual signal indicating the brake lining wear state;
7	
8	an electronic control/evaluation system for controlling the display device;
9	
10	an electrical connecting device for connecting the wear sensor to the electronic
11	control/evaluation system, wherein the electronic control/evaluation system evaluates
12	signals from the wear sensor and provides a signal to the display for generating the visual
13	signal;
14	
15	a memory storage device for storing a current wear state of the brake lining as well as
16	previously sensed wear states; and
17	
18	a power supply device for providing power to the wear display device.
1	2. A brake lining wear display apparatus as recited in claim 1, wherein the power supply device
2	comprises an external power supply.
1	3. A brake lining wear display apparatus as recited in claim 1, wherein the power supply device
2	comprises a battery.
1	4. A brake lining wear display apparatus as recited in claim 1, wherein the electronic
2	control/evaluation system signals the display device to provide a plurality of visual signals, the
3	visual signals comprising a first visual signal when the wear sensor senses an intermediate stage

- 4 of brake lining wear and a second visual signal when the wear sensor senses a stage of brake
- 5 lining wear beyond the intermediate stage.
- 5. A brake lining wear display apparatus as recited in claim 1, further comprising a display for
- 2 providing a visual signal indicating status of the power supply.
- 6. A brake lining wear display apparatus as recited in claim 1, further comprising a display for
- 2 indicating an interruption in a connecting device between the electronic control/evaluation
- 3 system and the wear sensor.
- 1 7. A brake lining wear display apparatus as recited in claim 1, further comprising a data
- 2 connection for transmitting signals between the electronic control/evaluation system and an
- 3 external electronic system.
- 8. A brake lining wear display apparatus as recited in claim 1, wherein the storage device
- 2 outputs data signals to the external electronic system via the electronic control/evaluation system
- 3 only after a predetermined code word has been entered.
- 9. A brake lining wear display apparatus as recited in claim 1, wherein the display comprises a
- 2 signal light.
- 1 10. A brake lining wear display apparatus as recited in claim 1, wherein the signal light
- 2 comprises an LED.
- 1 11. A brake lining wear display apparatus as recited in claim 1, wherein the electronic
- 2 control/evaluation system and the display device are arranged on a circuit board.
- 1 12. A vehicle, comprising:
- a brakable axle including wheels;

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5	a brake lining operatively associated with at least one of the wheels; and
6	
7	an apparatus for displaying the state of wear of the at least one brake lining, the brake
8	lining wear display apparatus comprising
9	
10	a wear sensor for sensing the state of wear of the at least one brake lining,
11	
12	a display for providing a visual signal indicating the brake lining wear state,
13	
14	an electronic control/evaluation system for controlling the display device,
15	
16	an electrical connecting device for connecting the wear sensor to the electronic
17	control/evaluation system, wherein the electronic control/evaluation system
18	evaluates signals from the wear sensor and provides a signal to the display for
19	generating the visual signal,
20	
21	a memory storage device for storing a current wear state of the brake lining as
22	well as previously sensed wear states, and
23	
24	a power supply device for providing power to the wear display device.

- 1 13. A vehicle as recited in claim 12, wherein a brake lining is operatively associated with each
- 2 of the wheels on the brakable axle, and the brake lining wear display apparatus is provided for
- 3 each wheel.
- 1 14. A vehicle as recited in claim 12, wherein the power supply device comprises a power supply
- 2 associated with the vehicle.
- 1 15. A vehicle as recited in claim 12, wherein the power supply device comprises a battery
- 2 associated with the brake lining wear display apparatus.

- 1 16. A vehicle as recited in claim 12, wherein the electronic control/evaluation system signals the
- 2 display device to provide a plurality of visual signals, the visual signals comprising a first visual
- 3 signal when the wear sensor senses an intermediate stage of brake lining wear and a second
- 4 visual signal when the wear sensor senses a stage of brake lining wear beyond the intermediate
- 5 stage.
- 1 17. A vehicle as recited in claim 12, wherein the brake lining wear display apparatus further
- 2 comprises a display for indicating an interruption in a connecting device between the electronic
- 3 control/evaluation system and the wear sensor.
- 1 18. The vehicle as recited in claim 12, wherein the display is disposed in the chassis or in the
- 2 passenger compartment of the vehicle.
- 1 19. A vehicle as recited in claim 12, wherein the brake lining wear display apparatus further
- 2 comprises a data connection for transmitting signals between the electronic control/evaluation
- 3 system and an external electronic system.
- 1 20. A vehicle as recited in claim 19, wherein the external electronic system comprises an electric
- 2 brake system associated with the vehicle.
- 1 21. A vehicle as recited in claim 19, wherein the external electronic system comprises an
- 2 odometer, and wherein the current odometer reading is simultaneously stored in the memory
- 3 storage device with the current wear state of the brake lining.
- 22. A vehicle as recited in claim 19, further comprising a parking brake, and wherein the
- 2 external electronic system comprises means for sensing the status of the parking brake for
- 3 signaling sending a signal to the electronic control/evaluation system when the parking brake is
- 4 activated.